

Maureen J. Charron and Ellen B. Katz
Serial No.: 09/516,493
Filed: March 1, 2000
page 2

In the claims:

Please cancel claims 44-72 without disclaimer or prejudice to applicants' right to pursue the subject matter of these claims in a future continuation or divisional application.

Please add new claims 73-115 as follows:

Sub F1
--73. (New) An isolated nucleic acid consisting essentially of a nucleic acid encoding a polypeptide comprising consecutive amino acids having the sequence set forth in SEQ ID NO:7, where the nucleic acid comprises at least 1362 nucleotides.--

-- 74. (New) An isolated nucleic acid consisting essentially of a nucleic acid encoding a polypeptide comprising consecutive amino acids having the sequence set forth in SEQ ID NO:10, where the nucleic acid comprises at least 1362 nucleotides.--

E1
--75. (New) An isolated nucleic acid consisting essentially of a nucleic acid encoding a polypeptide comprising consecutive amino acids having the sequence set forth in SEQ ID NO:12, where the nucleic acid comprises at least 1362 nucleotides.--

--76. (New) The isolated nucleic acid of claim 73, wherein the isolated nucleic acid comprises nucleotides having the sequence set forth in SEQ ID NO:6.--

--77. (New) The isolated nucleic acid of claim 73, wherein the isolated nucleic acid comprises nucleotides 11 to 1372 of SEQ ID NO:6.--

Maureen J. Charron and Ellen B. Katz
Serial No.: 09/516,493
Filed: March 1, 2000
page 3

--78. (New) The isolated nucleic acid of claim 74, wherein the isolated nucleic acid comprises nucleotides having the sequence set forth in SEQ ID NO:9.--

--79. (New) The isolated nucleic acid of claim 75, wherein the isolated nucleic acid comprises nucleotides having the sequence set forth in SEQ ID NO:11.--

--80. (New) An isolated nucleic acid that hybridizes under high stringency conditions to the nucleic acid of claim 73, or to a complement thereof, and that encodes a polypeptide having at least 85% homology with the amino acid sequence set forth in SEQ ID NO:7.--

E1 Cont.
--81. (New) An isolated nucleic acid that hybridizes under high stringency conditions to the nucleic acid of claim 74, or to a complement thereof, and that encodes a polypeptide having at least 85% homology with the amino acid sequence set forth in SEQ ID NO:10.--

--82. (New) An isolated nucleic acid that hybridizes under high stringency conditions to the nucleic acid of claim 75, or to a complement thereof, and that encodes a polypeptide having at least 85% homology with the amino acid sequence set forth in SEQ ID NO:12.--
F

--83. (New) The isolated nucleic acid of claim 80 that encodes a polypeptide having at least 90% homology with the amino acid sequence set forth in SEQ ID NO:7.--

--84. (New) The isolated nucleic acid of claim 83 that encodes a polypeptide having at least 95% homology with the amino acid sequence set forth in SEQ ID NO:7.--

Maureen J. Charron and Ellen B. Katz
Serial No.: 09/516,493
Filed: March 1, 2000
page 4

--85. (New) The isolated nucleic acid of claim 84 that encodes a polypeptide having at least 98% homology with the amino acid sequence set forth in SEQ ID NO:7.--

--86. (New) The isolated nucleic acid of claim 81 that encodes a polypeptide having at least 90% homology with the amino acid sequence set forth in SEQ ID NO:10.--

--87. (New) The isolated nucleic acid of claim 86 that encodes a polypeptide having at least 95% homology with the amino acid sequence set forth in SEQ ID NO:10.--

--88. (New) The isolated nucleic acid of claim 87 that encodes a polypeptide having at least 98% homology with the amino acid sequence set forth in SEQ ID NO:10.--

--89. (New) The isolated nucleic acid of claim 82 that encodes a polypeptide having at least 90% homology with the amino acid sequence set forth in SEQ ID NO:12.--

--90. (New) The isolated nucleic acid of claim 89 that encodes a polypeptide having at least 95% homology with the amino acid sequence set forth in SEQ ID NO:12.--

--91. (New) The isolated nucleic acid of claim 90 that encodes a polypeptide having at least 98% homology with the amino acid sequence set forth in SEQ ID NO:12.--

--92. (New) The isolated nucleic acid of claim 73, wherein the polypeptide comprises 12 transmembrane domains.--

--93. (New) The isolated nucleic acid of claim 74, wherein the polypeptide

Maureen J. Charron and Ellen B. Katz
Serial No.: 09/516,493
Filed: March 1, 2000
page 5

comprises 12 transmembrane domains.--

--94. (New) The isolated nucleic acid of claim 75, wherein the polypeptide comprises 12 transmembrane domains.--

--95. (New) The isolated nucleic acid of claim 80, wherein the polypeptide comprises 12 transmembrane domains.--

--96. (New) The isolated nucleic acid of claim 81, wherein the polypeptide comprises 12 transmembrane domains.--

--97. (New) The isolated nucleic acid of claim 82, wherein the polypeptide comprises 12 transmembrane domains.--

--98. (New) The isolated nucleic acid of claim 73, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

--99. (New) The isolated nucleic acid of claim 74, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

--100. (New) The isolated nucleic acid of claim 75, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

--101. (New) The isolated nucleic acid of claim 80, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

Maureen J. Charron and Ellen B. Katz
Serial No.: 09/516,493
Filed: March 1, 2000
page 6

--102. (New) The isolated nucleic acid of claim 81, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

F
--103. (New) The isolated nucleic acid of claim 82, wherein the polypeptide has a molecular weight of approximately 32.6 kD.--

--104. (New) The isolated nucleic acid of claim 73, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

--105. (New) The isolated nucleic acid of claim 74, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

--106. (New) The isolated nucleic acid of claim 75, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

E1 Cont
--107. (New) The isolated nucleic acid of claim 80, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

--108. (New) The isolated nucleic acid of claim 81, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

F
--109. (New) The isolated nucleic acid of claim 82, wherein expression of the polypeptide is increased in a mammal in response to hyperglycemia or diabetes.--

--110. (New) A vector comprising the nucleic acid of claim 73.--